03050105-150

(North Pacolet River)

General Description

Watershed 03050105-150 is located in Spartanburg County and consists primarily of the ***North Pacolet River*** and its tributaries. The watershed occupies 31,549 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Cecil-Hiwassee series. The erodibility of the soil (K) averages 0.28, and the slope of the terrain averages 10%, with a range of 2-25%. Land use/land cover in the watershed includes: 65.8% forested land, 19.3% agricultural land, 11.4% urban land, 2.5% scrub/shrub land, 0.7% water, and 0.3% barren land.

The North Pacolet River originates in North Carolina and accepts drainage from Vaughn Creek (Lake Lanier) and Wolfe Creek, which originate in South Carolina. After flowing across the state line, the river accepts drainage from Page Creek. Hooper Creek, Collinsville Creek, and Bear Creek enter the river next; all originating in North Carolina. Obed Creek drains into the river at the base of the watershed. There are a few recreational lakes (totaling 103.5 acres) in this watershed and a total of 56.6 stream miles, all classified FW with the exception of Vaughn Creek, which is classified ORW.

Water Quality

Station #	Type	Class	Description
B-099-7	BIO	ORW	VAUGHN CREEK AT UNNUMBERED ROAD, 0.4 MI S OF S-23-319
B-099A	S	FW	LAKE LANIER ON # 1 INLET IN GREENVILLE COUNTY
B-099B	S	FW	LAKE LANIER AT DAM IN GREENVILLE COUNTY
B-719	BIO	FW	NORTH PACOLET RIVER AT S-42-128
B-301	S	FW	PAGE CREEK AT S-42-1258, 1.7 MI SE LANDRUM
B-026	P	FW	NORTH PACOLET RIVER AT S-42-956, 6.5 MI E LANDRUM
B-126	W	FW	NORTH PACOLET RIVER AT S-42-978, 1 MI SE OF FINGERVILLE
B-791	BIO	FW	OBED CREEK AT SR 42

North Pacolet River - There are three monitoring sites along the North Pacolet River. At the upstream site ***(B-719),*** aquatic life uses are fully supported based on macroinvertebrate community data. At the next downstream site ***(B-026),*** aquatic life uses are fully supported; however, there is a significant decreasing trend in dissolved oxygen concentration. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand, total phosphorus concentrations, and total nitrogen concentrations suggest improving conditions for these parameters. PCB-1254 was measured in the 1996 sediment sample. Recreational uses are not supported at this site due to fecal coliform bacteria excursions, compounded by a significant increasing trend in fecal coliform bacteria concentrations. At the downstream site ***(B-126),*** aquatic life uses are fully supported; however, a very high concentration of lead was measured in 1995. Recreational uses are not supported due to fecal coliform bacteria excursions.

Vaughn Creek (B-099-7) - Aquatic life uses are fully supported based on macroinvertebrate community data.

Lake Lanier - There are two monitoring sites on Lake Lanier. At the uplake site ***(B-099A),*** aquatic life uses are fully supported; however, there is a significant decreasing trend in dissolved oxygen concentration and a significant increasing trend in turbidity. There is a significant decreasing trend in pH. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions. At the downlake site ***(B-099B)***, aquatic life uses are also fully supported. There is a significant decreasing trend in pH. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are fully supported at this site.

Page Creek (B-301) – Aquatic life uses are fully supported. There is a significant decreasing trend in pH. A significant decreasing trend in turbidity suggests improving conditions for this parameter. Recreational uses are not supported due to fecal coliform bacteria excursions, compounded by a significant increasing trend in fecal coliform bacteria concentrations.

Obed Creek (B-791) - Aquatic life uses are fully supported based on macroinvertebrate community data.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM ***FACILITY NAME*** ***PERMITTED FLOW @ PIPE (MGD)***	***NPDES#*** ***TYPE*** ***LIMITATION***
NORTH PACOLET RIVER SSSD/FINGERVILLE WWTP PIPE #: 001 FLOW: 0.020	SC0047759 MINOR DOMESTIC EFFLUENT
NORTH PACOLET RIVER MILLIKEN & CO./NEW PROSPECT MILL PIPE #: 001 FLOW: 0.47 WQL FOR DO,TRC,NH3N	SC0023540 MINOR INDUSTRIAL WATER QUALITY
NORTH PACOLET RIVER CITY OF LANDRUM/PAGE CREEK WWTP PIPE #: 001 FLOW: 0.5 (PHASE I) PIPE #: 001 FLOW: 1.0 (PHASE II) PIPE #: 001 FLOW: 2.0 (PROPOSED) WQL FOR DO,TRC,NH3N; UNDER CONSTRUCTION	SC0026875 MINOR DOMESTIC WATER QUALITY WATER QUALITY WATER QUALITY
NORTH PACOLET RIVER LITTLE ACRES SAND CO./N. PACOLET MINE PIPE #: 001 FLOW: M/R	SCG730177 MINOR INDUSTRIAL EFFLUENT
OBED CREEK HB SWOFFORD VOCATIONAL SCHOOL PIPE #: 001 FLOW: 0.0045 WQL FOR NH3N	SC0028037 MINOR DOMESTIC WATER QUALITY
PAGE CREEK CITY OF LANDRUM/PAGE CREEK WWTP PIPE #: 001 FLOW: 0.5 WQL FOR BOD5,TRC,NH3N; TO BE PHASED OUT	SC0026875 MINOR DOMESTIC WATER QUALITY

Nonpoint Source Management Program

Mining Activities

MINING COMPANY *MINE NAME*	*PERMIT #* *MINERAL*
LITTLE ACRES SAND CO. NORTH PACOLET RIVER MINE	1037-83 SAND
SLATER PROPERTIES NORTH PACOLET SAND	1001-83 SAND
CHAPMAN GRADING & CONCRETE CO. MCMILLAN MINE	0383-83 SAND & GRAVEL

Water Supply

WATER USER *STREAM*	*TOTAL PUMP. CAPACITY (MGD)* *RATED PUMP. CAPACITY (MGD)*
CITY OF LANDRUM VAUGHN CREEK TRIBUTARY	0.2 0.2
CITY OF LANDRUM LAKE LANIER - VAUGHN CREEK	2.0 1.0
TOWN OF TRYON, N.C. LAKE LANIER	9.0 6.0

Growth Potential

There is a low potential for growth in this watershed, which contains a portion of the City of Landrum. I-26 bisects the watershed and some growth may result around interstate interchanges.